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signal processing means for applying a predetermined signal processing to record information that includes a plurality of partial record information blocks, and for generating a plurality of processed partial record information blocks each of which includes a plurality of information units, each information unit including one or a plurality of reproduction units;

navigation information generating means for generating navigation information including recording position information indicating recording positions of a plurality of other reproduction units that belong to the same processed partial record information block, corresponding to a predetermined reproduction time of the partial record information blocks within a predetermined range before and after a respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks, wherein each partial record information block includes the corresponding navigation information;

multiplexing means for multiplexing the plurality of processed partial record information blocks and the navigation information so that each reproduction unit includes the navigation information, thereby obtaining multiplexed partial record information; and

recording means for recording the multiplexed partial record information onto an information recording medium.

13. (Amended) An information recording medium to be reproduced by a reproducing apparatus, the information recording medium comprising:

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a plurality of processed partial record information blocks generated by applying a predetermined signal processing to record information including a plurality of partial record information blocks, each processed partial record information block including a plurality of information units;

a plurality of reproduction units, each information unit comprising one or more of the reproduction units; and

navigation information included in each of the <u>corresponding</u> reproduction units, the navigation information including recording position information indicating recording positions of <u>a plurality of</u> other reproduction units that belong to the same processed partial record information block, corresponding to a predetermined reproduction time of the partial record information blocks within a predetermined range before and after a respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks.

16. (Amended) An information reproducing apparatus for reproducing information recorded on an information recording medium comprising:

a plurality of processed partial record information blocks generated by applying a predetermined signal processing to record information including a plurality of partial record information blocks, each processed partial record information block including a plurality of information units;

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a plurality of reproduction units, each information unit comprising one or more of the reproduction units; and

navigation information included in each of the corresponding reproduction units, the navigation information including recording position information indicating recording positions of a plurality of other reproduction units that belong to the same processed partial record information block, corresponding to a predetermined reproduction time of the partial record information blocks within a predetermined range before and after a respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks,

the information reproducing apparatus comprising:

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detection and demodulation means for detecting and demodulating information recorded on the recording medium to thereby obtain a demodulation signal;

extracting means for extracting the recording position information out of the demodulation signal; and

control means for controlling reproduction of information on a basis of the extracted recording position information.

21. (Amended) An information recording medium to be reproduced by a reproducing apparatus, comprising:

a plurality of information blocks, each of which includes a plurality of interleaved units;

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a plurality of object units, each interleaved unit comprising one or more of the object

units; and

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navigation information included in each of the corresponding object units and positioned

at a forefront of each of the object units, wherein the navigation information includes recording

position information indicating recording positions of a plurality of other object units that belong

to the same information block within a predetermined range from an object unit in which the

recording position information is included on an axis of reproduction time of an information

block to which the object unit belongs.

24. (Amended) An information reproducing apparatus for reproducing information

recorded on an information recording medium comprising:

a plurality of information blocks, each of which includes a plurality of interleaved units;

a plurality of object units, each interleaved unit comprising one or more of the object

units; and

navigation information included in each of the corresponding object units and positioned

at a forefront of each of the object units, the navigation information including recording position

information indicating recording positions of a plurality of other object units that belong to the

same information block within a predetermined range from an object unit in which the recording

position information is included on an axis of reproduction time of an information block to which

the object unit belongs, the information reproducing apparatus comprising:

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detection and demodulation means for detecting and demodulating information recorded

on the recording medium to obtain a demodulation signal;

extracting means for extracting the recording position information out of the demodulation

signal; and

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control means for controlling reproduction of information on the basis of the extracted

recording position information.

**REMARKS** 

Summary of the Final Office Action

In the Final Office Action dated February 22, 2000, claims 10-28 stand rejected under

35 U.S.C. § 102(e) as being anticipated by Cookson et al., U.S. Patent No. 5,574,567.

Summary of the Response to the Office Action

Applicants thank the Examiner for the courtesies extended during the interview at the

United States Patent and Trademark Office of May 9, 2000.

Although Applicants do not necessarily agree with the reasoning expressed in the Final

Office Action, in order to expedite the prosecution of this case, Applicants are amending claims

10, 13, 16, 21 and 24.

Claims 10-28 are pending in this application.

The Rejections based on Cookson et al.

As discussed during the interview with the Examiner, claim 10 is amended to recite that

the navigation information in each partial record information block includes recording positions

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